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Patent Number(s):

JP2000204145-A [ORIGINAL DOCUMENT](#)

## Title:

Manufacture of macromolecular polyethylene terephthalate, involves using crystalline polyethylene terephthalate prepolymer having specific ratio of terminal carboxy groups and hydroxy groups

Patent Assignee Name(s) and Code(s):

TEIJIN LTD (TEIJ)

Derwent Primary Accession Number:

2000-574592 [54]

## Abstract:

NOVELTY - Low molecular crystalline polyethylene terephthalate prepolymer having an intrinsic viscosity of 0.07-0.28 and having specific ratio of terminal carboxy groups to hydroxy groups is subjected to solid phase polycondensation, to obtain macromolecular polyethylene terephthalate. The polycondensation is performed at 180-250 degreesC.

USE - For manufacture of macromolecular polyethylene terephthalate.

ADVANTAGE - Adhesion between polyethylene terephthalate prepolymer pellets and that between the pellets and container walls is minimized, thereby eliminating problems posed during polycondensation. Macromolecular polyethylene terephthalate having a uniform molecular weight and reduced acetaldehyde content is obtained.

DETAILED DESCRIPTION - Macromolecular polyethylene terephthalate (PET) having an intrinsic viscosity ( $\eta$ ) of 0.5-2.0 is obtained by performing solid phase polycondensation of low molecular crystalline PET prepolymer, at 180-250 degreesC. The PET prepolymer has an intrinsic viscosity of 0.07-0.28 and the ratio of the amount of terminal carboxy groups (COOH) to hydroxy groups (OH) present in the prepolymer satisfies the relationships I and II.

International Patent Classification:

C08G-063/80

Derwent Class:

A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s):

A05-E04A; A10-D05

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Patent 1 of 1

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